

ABSTRACT OF THE DISCLOSURE

An internal power supply voltage generation circuit includes a main amplifier that supplies a current from an external power supply node to an internal power supply line in accordance with the difference between a reference voltage from a reference voltage generation circuit and an internal power supply voltage on the internal power supply line. The current supply amount by the main amplifier is adjusted by a level adjust circuit, according to the difference between the external power supply voltage and the reference voltage. The internal power supply voltage generation circuit can suppress reduction in the internal power supply voltage in the vicinity of the lower limit area of the differential power supply voltage.